

AMENDMENTS

In the Claims:

1. (Currently Amended) An intervertebral disc prosthesis, comprising two cover plates and a prosthesis core, the prosthesis core being connected to one of the cover plates by complementary undercut connection profiles on the one cover plate and the prosthesis core,

wherein the connection profile on the prosthesis core includes a dorsal portion is disposed on a leading edge and ~~[[a]]~~ two lateral portion edges relative to an implanted position of the prosthesis, the dorsal portion formed along a dorsal edge of the prosthesis core relative to the implanted position; the dorsal portion leading edge having a triangular configuration with a single projecting tip in a triangular configuration, the projecting tip pointing in a direction of insertion into the one cover plate outward beyond the lateral edges,

the dorsal portion leading edge comprising a pair of first profile sections being substantially straight and forming sides of the triangular configuration that meet at an angle not greater than 150°, ~~the lateral portion formed along lateral edges of the prosthesis core relative to the implanted position;~~ the lateral ~~portion edges~~ comprising a pair of second profile sections being arranged in an anteroposterior direction relative to the implanted position, ~~the pair of first profile sections meeting the pair of second profile sections.~~

2. (Canceled)

3. (Previously Presented) The intervertebral disc prosthesis according to claim 1, wherein the prosthesis core is held in engagement with the one cover plate by an engaging structure arranged on a ventral side of the prosthesis core and the one cover plate relative to the implanted position.

4-5. (Canceled)